

VOSKHOD 2 - PRESS

FBIS 96

BELYAYEV ON SPACE WALKING

MOSCOW TASS INTERNATIONAL SERVICE IN ENGLISH 1517Z 16 SEP 65 L

(TEXT) ATHENS--IT WOULD APPEAR THAT IN THE FUTURE THE EXIT OF COSMONAUTS INTO SPACE FROM ORBITAL STATIONS TO RELIEVE THE CREWS, PERFORM WORK IN SPACE, AND SO FORTH, WILL BE MADE ONLY THROUGH AIR LOCKS, WHICH MAKE IT POSSIBLE TO AVOID DEHERMETIZATION OF THE SPACESHIP. THIS CONCLUSION WAS DRAWN IN COSMONAUT BELYAYEV'S REPORT AT THE INTERNATIONAL ASTRONAUTICS CONGRESS IN ATHENS.

PAVEL BELYAYEV, TOGETHER WITH ALEKSEY LEONOV, MADE THE SPACE FLIGHT ON 18 MARCH DURING WHICH LEONOV MADE THE FIRST WALK IN SPACE.

BELYAYEV SAID THAT THE SPACE SHIP VOSKHOD-2 DIFFERED RADICALLY FROM THE PRECEDING VOSTOK AND VOSKHOD SHIPS. IT WAS EQUIPPED WITH ORIGINAL TECHNICAL MEANS WHICH INSURED FULFILLMENT OF THE ENTIRE FLIGHT PROGRAM. LIKE ITS PREDECESSORS, VOSKHOD-2 WAS HIGHLY DEPENDABLE.

BELYAYEV MENTIONED A NUMBER OF MEDICOBIOLOGICAL CONCLUSIONS. IN SPACE FLIGHT CONDITIONS THE RESOLVING POWER OF VISION AND THE PERFORMANCE OF PROGRAMMED ACTIONS DO NOT CHANGE SUBSTANTIALLY. BUT VISUAL EFFICIENCY IS IMPAIRED TO THE EXTENT OF 20-30 PERCENT. THE PERCEPTION OF LIGHT SOMEWHAT DIMINISHES. FOR GREEN AND PURPLE COLOR, IN PARTICULAR, IT DIMINISHES BY AS MUCH AS 50 PERCENT. "LUNG VENTILATION" INCREASES IN FLIGHT TWO OR THREEFOLD.

LEONOV DESCRIBED IN HIS REPORT THE FUNCTIONING OF THE SO-CALLED "SELF-USED BY MAN IN OPEN SPACE."

THE COSMONAUT HIMSELF WAS ABLE TO REGULATE THE ATMOSPHERE IN HIS "SHELL"--SPACESUIT. HE COULD MAINTAIN WITHIN IT AN EXCESS PRESSURE OF 0.4 ATMOSPHERES OR 0.27 ATMOSPHERES. WHEN HE STEPPED OUT OF THE SHIP, LEONOV SAID, THE EXCESS PRESSURE IN THE SPACESUIT WAS 0.4 ATMOSPHERES AND BEFORE RENTRY INTO THE SHIP, HE SAID, I ONCE MORE SET THE PRESSURE BACK TO 0.27 ATMOSPHERES.

THE DATA OBTAINED, HE SUMMED UP, IN THE FIRST PLACE PERMITS THE CONCLUSION THAT STEPPING OUT INTO OPEN SPACE DOES NOT CAUSE SERIOUS SPECIFIC CHANGES IN PSYCHOPHYSIOLOGICAL FUNCTIONS. "I DID NOT NOTICE ANY UNPLEASANT SUBJECTIVE SENSATIONS DESPITE THE FACT THAT ACCORDING TO THE PROGRAM I PERFORMED SEVERAL MULTIPLANAR GYRATIONS."

LEONOV ANALYZED THE FIRST DATA ABOUT WORKING IN OPEN SPACE. THE MOST IMPORTANT RESULT OF THE EXPERIMENT MADE IN THE SPACESHIP VOSKHOD-2 WAS THAT MAN CAN WORK IN OPEN SPACE WHERE HE HAS NO SUPPORT. THIS EXPERIMENT WAS VITALLY NECESSARY FOR THE FURTHER EXPLORATION OF SPACE AND THE ORGANIZATION OF FLIGHTS TO OTHER PLANETS, LEONOV STRESSED.

THE EXPERIMENT WITH STEPPING INTO OPEN SPACE, WHICH WAS SOON REPEATED BY THE AMERICAN ASTRONAUT, EDWARD WHITE, FULLY CONFIRMED THAT MAN CAN PERFORM WORKING OPERATIONS IN OPEN SPACE, LEONOV CONTINUED. AND IT IS POSSIBLE BOTH TO DO MANUAL WORK AND CONDUCT SCIENTIFIC OBSERVATIONS.

WE REALIZE, LEONOV NOTED, THAT THIS IS ONLY A BEGINNING. DOMESTICATION OF OUTER SPACE IS NOT AN EASY THING. BUT EVEN THAT WHICH HAS BEEN DONE IS MANKIND'S ACHIEVEMENT IN THE CONQUEST OF OUTER SPACE AND THE UNLOCKING OF THE SECRETS OF THE UNIVERSE. IT SEEMS TO ME THAT NOT DISTANT IS THE TIME WHEN THERE WILL APPEAR ORBITAL MULTIMANNED RESEARCH LABORATORIES WHOSE CREWS WILL BE RELIEVED AT REGULAR INTERVALS. THEY WILL BE FOLLOWED BY COSMIC LUNIKS, AND MAN'S LANDINGS ON THE MOON AND OTHER PLANETS OF THE SOLAR SYSTEM.

CCC: 5TH PARA 1ST LINE SHOULD READ AS FOLLOWS

LEONOV DESCRIBED IN HIS REPORT THE FUNCTIONING OF THE SO-CALLED "SELF-CONTAINED PACK LIFE-SUPPORT SYSTEM"

CORRECTING PILEUP

16 SEP 2300Z DEW/GS